

From: [Valerie Oster](#)
To: [Andy Davis](#); [Carl Stivers](#); [Christine Hawley](#); [David Ashton](#); [Gene Revelas](#); [James Peale](#); [Jeff Peterson](#); [Jerry George](#); [John Toll](#); [Linda Baker](#); [Mark Lewis](#); [Nancy Judd](#); [Ray Walton](#); [Sean Gormley](#); [Walt Burt](#); [Eric Blischke/R10/USEPA/US@EPA](#); [ANDERSON.Jim@deg.state.or.us](#); [Burt Shephard/R10/USEPA/US@EPA](#); [Kristine Koch/R10/USEPA/US@EPA](#); [csmith@parametrix.com](#); [Taku Fuji](#); [Laura Jones](#); [Earl Hayter/ATH/USEPA/US@EPA](#); [Rene Fuentes/R10/USEPA/US@EPA](#); [Joe Goulet/R10/USEPA/US@EPA](#); [Ben Cope/R10/USEPA/US@EPA](#); [poulson.mike@deg.state.or.us](#); [Bob Wyatt](#); [Fred Wolf](#); [Jan Betz](#); [Jim McKenna](#); [Patty Dost \(Schwabe\)](#); [Rick Applegate](#); [Valerie Oster](#)
Subject: FW: Fate and Transport Meeting Action Items
Date: 04/03/2007 04:31 PM

Hi all -

Please see below for summary of agreements and action items from yesterday's Fate and Transport/FWM meeting.

thanks
Valerie

Valerie Thompson Oster
Anchor Environmental, L.L.C
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Phone: 503-670-1108 x19
Cell: 503-577-0254
Fax: 503-670-1128

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From: Carl Stivers
Sent: Tuesday, April 03, 2007 4:23 PM
To: Valerie Oster
Subject: Fate and Transport Meeting Action Items

Valerie -

Please forward this to all of the relevant LWG and EPA/Partner representatives.

Yesterday's meeting included extensive discussion of all components of the Hybrid Fate and Transport Model. The meeting included a review of objectives (agreed from last year), a status report of the model development agreed to in late November of last year, and issues/solutions identified for several aspects of the model. Schedule moving forward with the model development and data gaps analysis report was also discussed. I have not attempted to capture every issue that was discussed, but per meeting agreements, I have included the major agreements and action items that came out of the meeting.

Major agreements included:

- Use a 1 month time step for the Food Web Model, at least for model development
- Provide from the Abiotic Fate and Transfer Model monthly average site-wide concentrations, monthly averages for one "test" segment (to be determined per action items below), and average concentrations on a shorter time step for same test segment. These data will be used to understand the sensitivity and variation in Food Web Model based on various potential spatial and time scale assumptions.
- Conference call at 9:30 am on April 16th to discuss progress on action items.

The major action items (and some related notes) were:

- West Consultants will make some additional coding checks/changes to ensure mass conservation of sediment fluxes and resulting TSS daily averages.
- West and LWG will evaluate EPA comments on the EFDC model to determine the potential for and extent of additional revisions to the EFDC model to impact water/sediment fluxes passed off to the Abiotic Fate and Transport model for model testing and data gaps analyses purposes. It was agreed that Hybrid model development and testing would proceed based on this preliminary evaluation, and full incorporation of any EFDC model changes could not keep pace with the Hybrid Model development and data gaps analysis schedule. Potential schedule implications of this were discussed extensively.
- Carrie Smith and Carl Stivers to complete Abiotic Fate and Transport Model development including: final verification of the "BSF" parameter formulation, provide BSF equation to Burt Shephard and Windward to verify it is consistent with Food Web Model equation for the same parameter, tests on the full run time of the model to see if it takes too long to run, addition of TSS data from EFDC test model runs, develop a summary data table for transfer to the Food Web Model, review sedimentation/erosion rates in test runs relative to surface layer depth to see if assumption of no buried layer in the model appears adequate, make changes to chemical constants per decision on test chemical to be modeled (see below) and generally complete the build out of the model so that it can be run for a longer evaluation period. Also, will initiate a preliminary written description of the Abiotic F&T Model as proposed at this time to facilitate early team member review and understanding of this component of the hybrid model. Will also consider whether additional format changes to EFDC output table are needed to streamline Abiotic Fate and Transport Model data transfer and work with West on that as necessary.
- Burt Shephard and Windward will meet within two weeks to decide the best chemical to be used for the model and decide on ranges of parameter values for each parameter to be used in sensitivity analyses.

It was agreed that these action items should be completed within the next two weeks. This will allow the completion of full test model runs in late April and report write up in May per the revised schedule provided by the LWG via email prior to the meeting.

In addition, the issues of how the buried layer and external chemical loads are addressed in the Abiotic Fate and Transport Model were extensively discussed, but no major agreements were reached in terms of model changes. Some of the action items above related to further exploring the importance of these issues including the write up by Carrie and Carl of how these issues are addressed by the current model.

Please let me and everyone know if you think I missed or poorly described anything.

Thanks.

Carl